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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT: Crowley, R.  
SERIAL NO.: 10/022,965 GROUP NO.: 3737  
FILING DATE: 12/13/2001 EXAMINER: Not yet assigned.  
TITLE: MINIATURE SPECTROMETER

Box Non-fee Amendment  
Commissioner for Patents  
Washington, D.C. 20231

**RECEIVED**  
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TECHNOLOGY CENTER R3700

**SECOND PRELIMINARY AMENDMENT**

Sir:

Kindly enter the following preliminary amendment prior to examination.

**In the Specification:**

On pages 9 and 10, please delete the paragraph bridging pages 9 and 10, and replace with the following paragraph:

Referring to FIG. 3, the spectrometer module 41 of FIG. 2B is disposed at the distal end of an interventional device 70. In the disclosed embodiment, the module 41 is attached to the distal end of a shaft 71, and the shaft 71 houses signal wires 9, 10, and 13. The shaft 71 terminates with a small connector 73 at the proximal end. The connector 73 may have one or more contacts arranged to permit electrical, optical, and mechanical connection to a mating connector. The shaft 71 also has a slidable stop 75 that may be prepositioned to allow control of the depth of placement within the body. The stop may be a collar with a collet ring 77 that tightens when twisted to provide a positive stop. The shaft 71 may comprise a tube, such as stainless steel hypo tube, superelastic (nitinol) tube, or the like. The advantage of such shafts is that they are relatively rigid and allow